

Abstract

5 The present invention provides an apparatus and method for evaluating the integrity of a
seal on liquid-filled container. According to one aspect of the invention, the apparatus comprises
a tank for containing a liquid solution and a clamp with a first and second member between
10 which the container is engaged. The clamp is positioned with respect to the tank such that a
portion of the container properly situated in the clamp will extend into the tank and contact the
liquid solution. A ram and cylinder are operatively connected to the clamp to engage the
container. A seat is provided to support a portion of the container such that at least a portion of
the container supported by the seat will extend into the tank. A drill is provided to pierce a
15 surface of the container to make an opening. The drill is positioned such that the opening can be
made while the container is in the clamp and/or the seat such that at least a portion of the
container extends into the tank. The apparatus further includes a conductivity meter mounted on
the platform, a first electrode attached to the drill, and a second electrode positioned such that at
least a portion of the second electrode extends into the tank. According to another aspect of the
invention, the tank, the clamp, the seat, and the ram and cylinder are mounted on a mobile
platform. The present invention further relates to a method for evaluating a seal on a liquid-filled
container.

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